

### **List of Claims**

1. (original) A method for screening for a candidate bioactive agent capable of binding to LTRPC2, said method comprising:
    - a) contacting an LTRPC2 protein or fragment thereof with said candidate agent; and
    - b) determining the binding of said candidate agent to said LTRPC2 protein or fragment thereof.
  2. (original) The method of claim 1 wherein a library of two or more of said candidate agents are contacted with said LTRPC2 protein or fragment thereof.
  3. (original) The method of claim 1 wherein said LTRPC2 protein comprises amino acids from 1 through about 1503 of SEQ ID NO:1.
  4. ( original) The method of claim 1 wherein said LTRPC2 protein is encoded by a nucleic acid comprising sequences from 1 through about 4512 of SEQ ID NO:2.
- 5-25. (canceled)